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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/735,826	12/16/2003	Yasuhiko Matsunaga	U2054.0146	5530
32172 7590 08/08/2008 DICKSTEIN SHAPIRO LLP 1177 AVENUE OF THE AMERICAS (6TH AVENUE)			EXAMINER	
			NGUYEN, TU X	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/735,826 MATSUNAGA, YASUHIKO Office Action Summary Examiner Art Unit TU X. NGUYEN 2618 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 12 May 2008. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-5.19-26.34-40.45-48.57.60.61 and 63 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-5,19-26,34-40,45-48,57,60,61 and 63 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 16 December 2003 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Draftsparson's Catent Drawing Review (CTO-948) 5) Notice of Informal Patent Application 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _ 6) Other:

Page 2

Application/Control Number: 10/735,826

Art Unit: 2618

DETAILED ACTION

Response to Amendment

Applicant's arguments with respect to claims 1, 19, 25, 34, 37, 45, 57, 60-61 and 63 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2, 19-21, 25-26, 34-37, 45, 57, 60-61 and 63 rejected under 35 U.S.C. 102(b) as being anticipated by Bergqvist (US Pub. 20010005359).

Regarding claim 1, Bergqvist discloses a radio-resource management method comprising a control step of, based on radio-link quality information, including at least a received level of a radio link, to be notified from at least one of a plurality of radio base stations and radio terminals belonging to respective different operators (see par.023-024), taking alteration control of a frequency that said radio base station utilizes on the basis of total received levels of other base stations (see par.008) that use the same frequency used by said radio base station (see par.025).

Regarding claims 2 and 26, Bergqvist discloses said radio-resource management method characterized in that said radio-link quality information includes at least the received Application/Control Number: 10/735,826

Art Unit: 2618

level of the radio link and a quantity of interference with a neighboring radio system, and that said control step has a step of, in the event that a total of the received levels of the other base stations utilizing a frequency identical to the frequency that said radio base station currently utilizes is larger than a total of the received levels of other base stations in the frequency other than the frequency that is currently utilized, out of the frequency that said radio base station can utilize, taking control so as to make an alteration to the frequency other than said frequency that is currently utilized (see par.025).

Regarding claim 19, Bergqvist discloses a radio-resource management method comprising a control step of, based on radio-link quality information, including at least a received level of a radio link, to be notified from at least one of a plurality of radio base stations and radio terminals belonging to respective different operators, detecting an interference state between the operators to take fault- notification control according to this detected result, and, taking alteration control of a frequency that said radio base station utilizes on the basis of total received levels of other base stations that use the same frequency used by said radio base station (see par. 023-025).

Regarding claims 20 and 35, Bergqvist discloses in the event that radio interference having a pre-specified value or more from the other radio operator was detected within a network of a certain radio operator, making fault notification to a network management server of the radio operator that is an interference source (see par.025).

Regarding claims 21 and 36, Bergqvist discloses in addition to said fault notification, making notification of anyone of an interference quantity, a transmitted-power quantity that Application/Control Number: 10/735,826 Page 4

Art Unit: 2618

the radio base station should attenuate, and a frequency that the radio base station should alter, or a combination thereof as well (see par.025).

Regarding claim 25, Bergqvist discloses a radio-resource management apparatus comprising controller for, based on radio-link quality information, including at least a received level of a radio link, to be notified from at least one of a plurality of radio base stations and radio terminals belonging to respective different operators, taking alteration control of a frequency that said radio base station utilizes on the basis of total received levels of other base stations that use the same frequency used by said radio base station (see par.023-025).

Regarding claim 34, Bergqvist discloses a radio-resource management apparatus comprising controller for, based on radio-link quality information, including at least a received level of a radio link, to be notified from at least one of a plurality of radio base stations and radio terminals belonging to respective different operators, detecting an interference state between the operators to take fault- notification control according to this detected result, and, taking alteration control of a frequency that said radio base station utilizes on the basis of total received levels of other base stations that use the same frequency used by said radio base station (see par.023-025).

Regarding claim 37, Bergqvist discloses a radio base station in a wireless network system including a radio-resource management apparatus for managing a radio resource, and radio base stations belonging to a plurality of respective different radio operators, said radio base station comprising: means for measuring a quality of a radio link, including at least a received level of a radio link, and notifying radio-link quality information that is this measured result to said radio-resource management apparatus; and means for, in reply to

Page 5

Application/Control Number: 10/735,826

Art Unit: 2618

alteration-control notification of a frequency based on said measured result from said radioresource management apparatus, taking alteration control of a service frequency on the basis of total received levels of other base stations using that use the same frequency used by said radio base station (see par.023-025).

Regarding claim 45, Bergqvist discloses a radio terminal in a wireless network system including a radio-resource management apparatus for managing a radio resource, and radio base stations belonging to a plurality of respective different radio operators, said radio terminal comprising: means for measuring a quality of a radio link, including at least a received level of a radio link, and notifying radio-link quality information that is this measured result to said radio-resource management apparatus; and means for, in reply to alteration-control notification of a frequency based on said measured result from said radio-resource management apparatus, taking alteration control of a service frequency on the basis of total received levels of other base stations ~ that use the same frequency used by said radio base station (see par.023-025).

Regarding claims 57 and 60-61 and 63, Bergqvist discloses a computer-readable medium storing a program for causing a computer to execute a control operation of a radio-resource management apparatus in a wireless network system (software program is inherent), said program characterized in including a frequency control step of, based on radio-link quality information, including at least a received level of a radio link, to be notified from at least one of radio base stations and radio terminals belonging to respective different operators, taking alteration control of a frequency that said radio base station utilizes on the

Art Unit: 2618

basis of total received levels of other base stations that use the same frequency used by said radio base station (see par.023-025).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the linvention was made.

Claims 3-5, 22-24, 38-40 and 46-48, are rejected under 35 U.S.C. 103(a) as being unpatentable over Bergqvist (US Pub. 20010005359) in view of Laakso (US Pub. 2003/0003921).

Regarding claims 3, 22, 38 and 46, Bergqvist fails to disclose radio-link quality information is notified at a predetermined notification period.

Laakso discloses radio-link quality information is notified at a predetermined notification period (see par.064). Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Bergqvist with the above teaching of Laakso in order to provide information report schedule period in order to make right decisions (as suggested by Laakso, par.0140).

Regarding claims 4-5, 23-24, 39-40 and 47-48, the modified Bergqvist discloses in the event that a link quality of the radio link exceeded a predetermined threshold, said notification period is set to be longer than it is set in the event that it is equal to or less than said threshold (see Laakso, par.064.0140).

Art Unit: 2618

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed Tu Nguyen whose telephone number is 571-272-7883.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban, can be reached at (571) 272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Tu X Nguyen/

Primary Examiner, Art Unit 2618

7/31/08